

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321073

Luminaire Tested: **GAN-SA9A-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31420 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

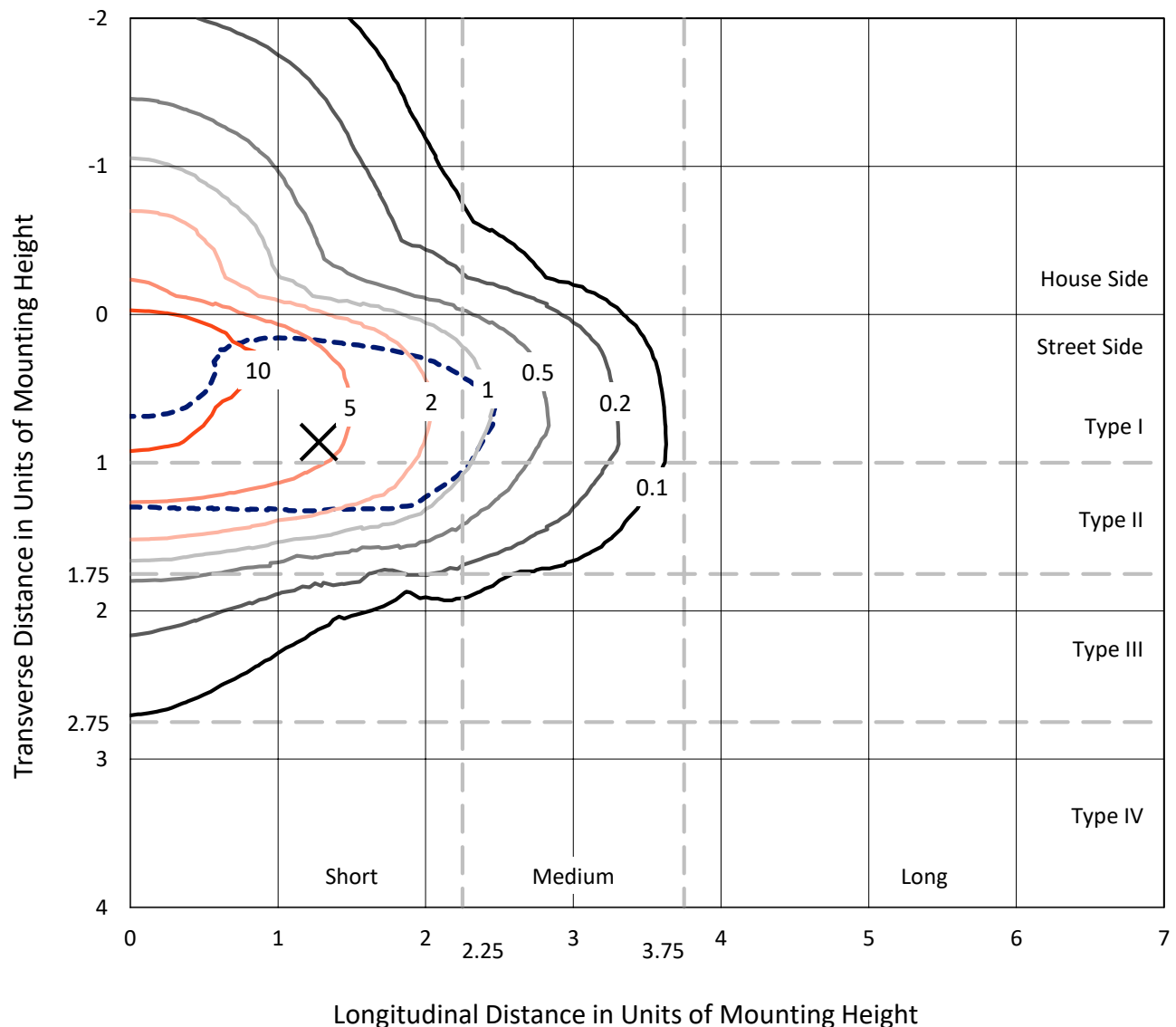


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Iso-Footcandle Lines of Horizontal Illumination

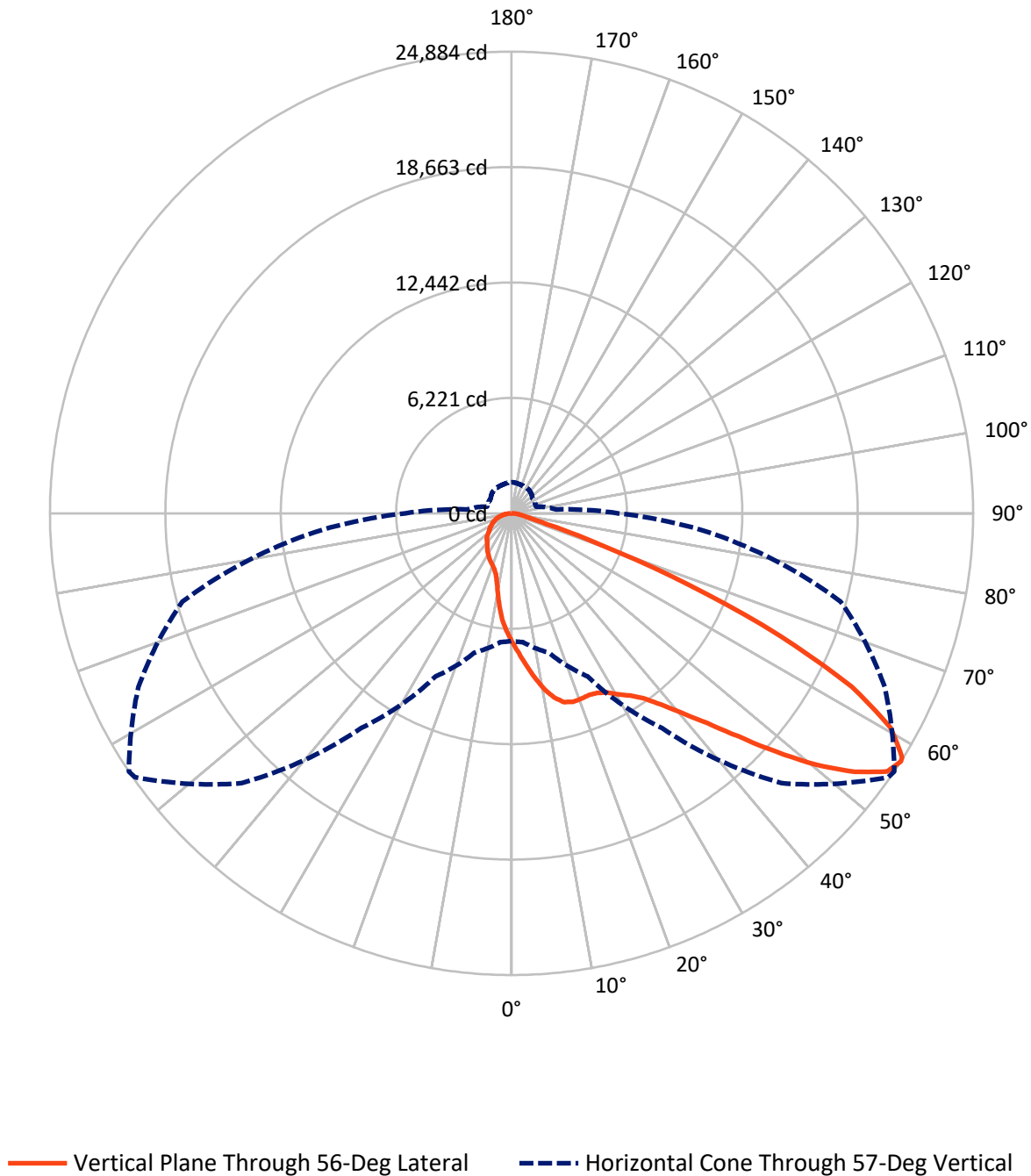
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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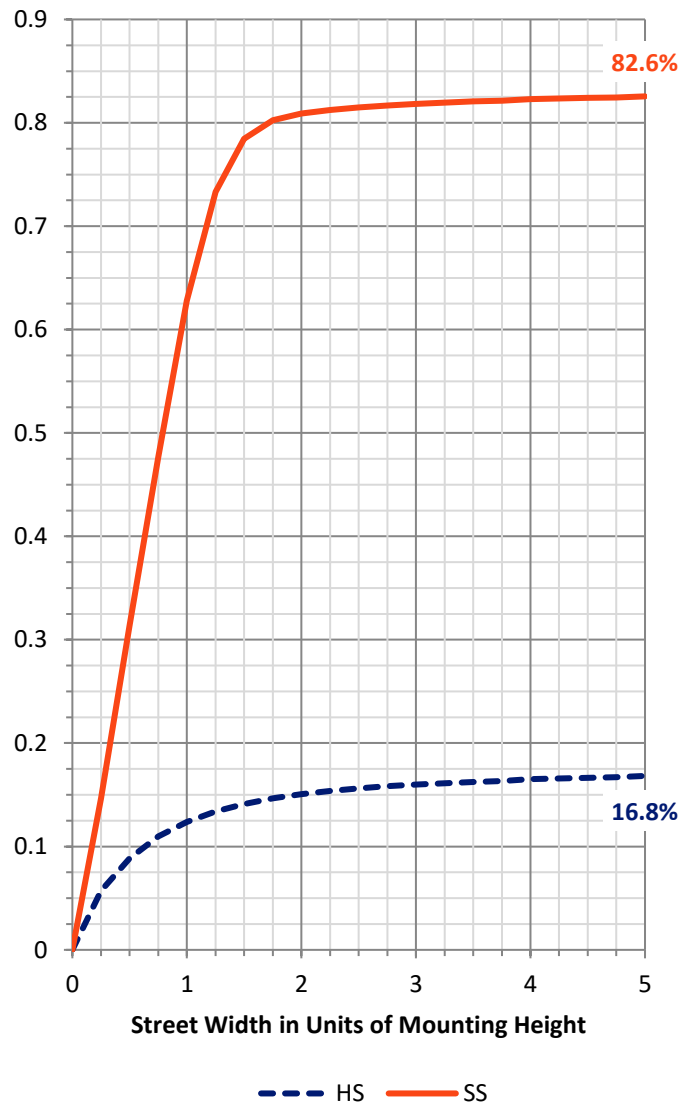
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5416.1	0.0	5416.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	26003.9	0.0	26003.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	31420.0	0.0	31420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.7	2.1
10°-20°	1882.1	6.0
20°-30°	3065.6	9.8
30°-40°	4582.8	14.6
40°-50°	6951.1	22.1
50°-60°	7790.9	24.8
60°-70°	4601.6	14.6
70°-80°	1507.7	4.8
80°-90°	372.5	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	31420.0	100.0
0°-180°	31420.0	100.0

Coefficient of Utilization



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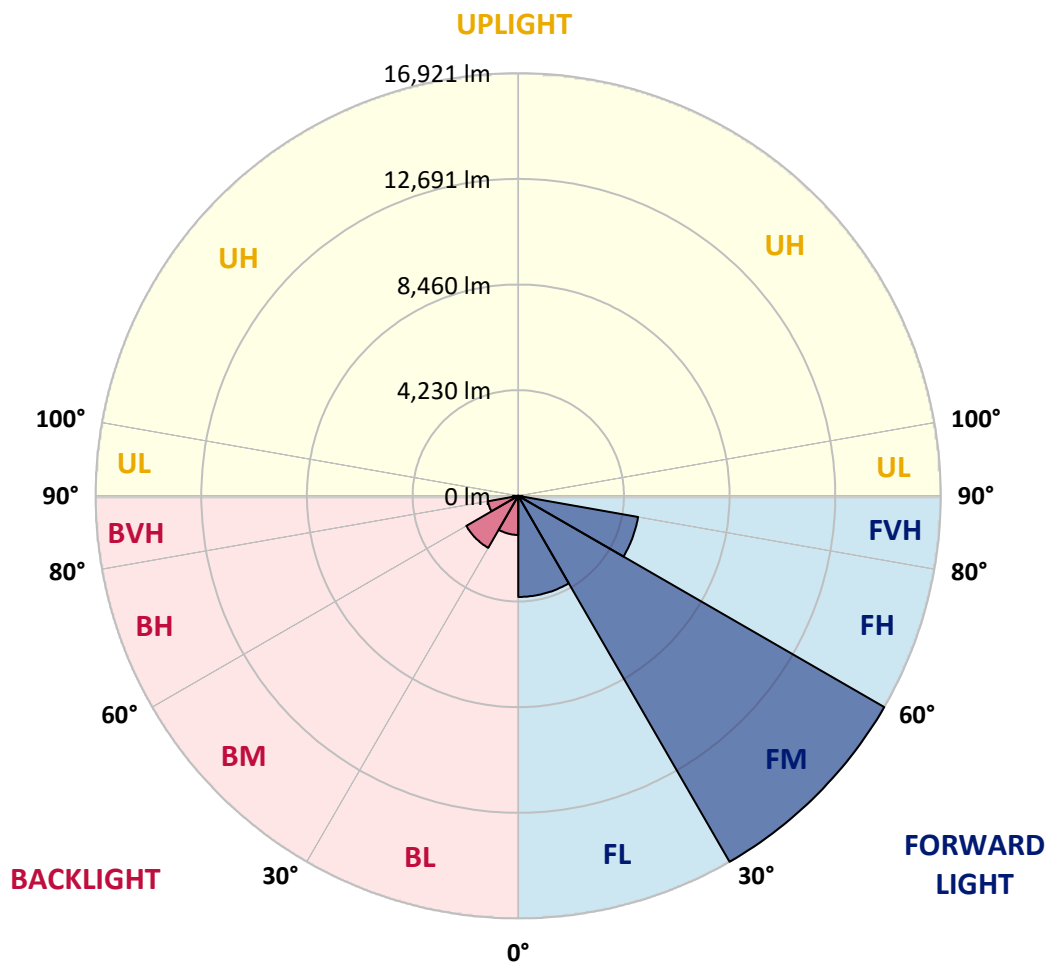
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4047.4	12.9			
FM	(30°-60°)	16920.7	53.9			
FH	(60°-80°)	4871.8	15.5			G2/5000
FVH	(80°-90°)	164.0	0.5			G2/225
BL	(0°-30°)	1566.1	5.0	B3/2500		
BM	(30°-60°)	2404.0	7.7	B2/2500		
BH	(60°-80°)	1237.5	3.9	B3/2500		G3/2500
BVH	(80°-90°)	208.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6969.0	6969.0	6969.0	6969.0	6969.0	6969.0	6969.0	6969.0	6969.0	6969.0	6969.0
2.5°	8002.3	8075.8	8043.4	7931.1	7844.7	7722.7	7586.6	7545.6	7402.0	7241.1	7047.8
5°	9268.9	9232.2	9179.3	9004.4	8819.7	8604.9	8263.7	8209.7	7890.0	7526.2	7141.8
7.5°	9990.2	9987.0	9955.7	9853.1	9684.7	9403.9	8992.5	8928.8	8446.1	7860.9	7264.8
10°	9885.5	9877.9	9929.8	10036.7	10087.4	10029.1	9682.5	9618.8	9026.0	8231.3	7407.4
12.5°	9290.5	9294.9	9378.0	9602.6	9908.2	10275.3	10219.2	10187.8	9627.4	8650.2	7580.1
15°	8827.3	8837.0	8902.9	9098.3	9459.0	10125.2	10545.3	10556.1	10209.4	9112.4	7782.1
17.5°	8624.3	8644.8	8675.1	8812.2	9142.6	9826.1	10623.0	10681.3	10719.1	9591.8	7976.4
20°	8689.1	8708.5	8717.2	8804.6	9075.7	9644.7	10569.0	10673.8	11110.0	10043.2	8170.8
22.5°	8979.6	8991.4	8996.8	9019.5	9230.1	9696.5	10533.4	10643.5	11392.9	10448.1	8317.6
25°	9461.1	9452.5	9418.0	9388.8	9530.3	9901.7	10615.4	10720.2	11622.9	10815.2	8413.7
27.5°	10037.8	10027.0	9960.0	9880.1	9961.1	10221.3	10851.9	10935.1	11829.1	11158.6	8462.3
30°	10729.9	10701.8	10575.5	10480.5	10511.8	10700.7	11241.7	11317.3	12147.7	11548.4	8509.8
32.5°	11530.0	11499.8	11317.3	11159.7	11159.7	11317.3	11643.4	11706.0	12417.6	11988.9	8586.5
35°	12532.1	12494.3	12256.7	11992.2	11917.7	11997.6	12190.9	12235.1	12903.5	12544.0	8725.8
37.5°	13713.4	13662.6	13354.9	13000.7	12837.7	12833.3	12972.6	13063.3	13679.9	13272.8	8962.3
40°	14897.9	14862.3	14593.4	14314.8	13995.2	13892.6	14107.5	14135.6	14694.9	14177.7	9264.6
42.5°	15813.6	15807.1	15757.4	15794.1	15467.0	15259.6	15428.1	15450.8	15934.5	15157.1	9586.4
45°	16297.3	16308.1	16548.9	17082.3	17203.3	17052.1	17135.2	17141.7	17351.2	16145.1	9881.2
47.5°	15909.7	15965.8	16574.8	17768.0	18758.2	19260.3	19122.1	19202.0	18724.7	16993.8	10112.3
50°	14399.0	14468.1	15504.7	17462.4	19483.8	21397.2	21324.8	21306.5	19832.6	17615.7	10237.5
52.5°	12527.8	12581.7	13436.9	15874.0	18951.4	22578.5	23242.5	23147.5	20817.3	18081.1	10261.3
55°	9678.2	9762.4	10582.0	12703.8	16798.3	22127.1	24652.8	24567.5	21714.6	18325.2	10233.2
57°	6880.4	6969.0	7783.1	9695.5	14131.3	20564.7	24793.1	24883.8	22199.5	18366.2	10264.5
57.5°	6139.7	6230.4	7037.0	8894.3	13299.8	19999.9	24672.2	24823.4	22286.9	18359.7	10281.8
60°	3091.4	3126.0	3640.0	4964.9	8407.3	16168.8	23094.6	23484.4	22365.8	18042.3	10356.3
62.5°	1922.0	1897.2	1881.0	2287.0	4090.3	10722.3	19839.0	20589.5	20857.3	17273.5	10176.0
65°	1689.9	1643.4	1465.3	1432.9	1806.5	5207.8	14940.0	15874.0	17634.1	16061.9	9746.2
67.5°	1587.3	1541.9	1341.1	1220.2	1221.2	2064.6	9275.4	10327.1	13737.1	14013.6	8732.3
70°	1481.5	1440.4	1252.6	1110.0	1039.8	1143.5	4267.3	5065.3	8954.7	11015.0	7298.3
72.5°	1345.4	1317.3	1139.2	992.3	917.8	856.3	1633.7	1929.6	5184.1	7397.7	5068.5
75°	1202.9	1177.0	1024.7	884.4	793.6	673.8	920.0	991.3	2633.6	3784.7	2495.4
77.5°	1046.3	1031.2	911.3	781.8	709.4	558.3	651.1	685.7	1129.5	1622.9	1251.5
80°	832.5	861.7	796.9	696.5	629.5	447.0	461.1	483.7	657.6	792.6	710.5
82.5°	542.1	592.8	624.1	565.8	518.3	352.0	331.5	341.2	428.7	483.7	308.8
85°	225.7	253.8	410.3	370.4	344.5	257.0	222.4	226.8	265.6	275.3	126.3
87.5°	100.4	106.9	180.3	169.5	145.8	88.5	95.0	103.7	141.5	133.9	48.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6969.0	6969.0	6969.0	6969.0	6969.0	6969.0	6969.0	6969.0	6969.0	6969.0	6969.0
2.5°	6975.5	6884.8	6729.3	6557.6	6417.2	6304.9	6191.5	6113.8	6023.1	5974.5	5949.7
5°	6980.9	6802.7	6475.5	6139.7	5839.5	5565.3	5303.9	5103.1	4915.2	4813.7	4785.6
7.5°	7003.5	6735.7	6206.7	5653.8	5120.4	4633.4	4257.6	4022.2	3852.7	3777.1	3755.5
10°	7021.9	6656.9	5874.1	5055.6	4330.0	3836.5	3545.0	3413.2	3354.9	3345.2	3335.5
12.5°	7065.1	6575.9	5524.2	4431.5	3715.6	3374.4	3272.9	3264.2	3280.4	3304.2	3304.2
15°	7133.1	6496.0	5124.7	3895.9	3324.7	3204.8	3225.3	3272.9	3317.1	3353.8	3359.2
17.5°	7182.8	6397.8	4694.9	3467.2	3116.3	3148.7	3222.1	3289.0	3334.4	3370.0	3373.3
20°	7218.4	6245.5	4236.0	3140.0	2996.4	3096.8	3188.6	3248.0	3279.3	3315.0	3320.4
22.5°	7200.1	6041.4	3828.9	2905.7	2899.2	3021.3	3108.7	3180.0	3156.2	3121.7	3144.4
25°	7111.5	5760.7	3410.0	2730.8	2796.7	2919.8	3027.7	2980.2	2900.3	2885.2	2893.8
27.5°	6953.9	5402.2	3022.3	2568.8	2677.9	2825.8	2819.3	2771.8	2743.8	2724.3	2736.2
30°	6784.3	5013.5	2683.3	2427.4	2546.2	2668.2	2643.3	2642.3	2614.2	2582.9	2598.0
32.5°	6617.0	4622.6	2414.4	2310.8	2446.8	2463.0	2517.0	2533.2	2478.1	2412.3	2407.9
35°	6471.2	4253.3	2210.3	2204.9	2327.0	2329.1	2407.9	2385.3	2248.1	2180.1	2180.1
37.5°	6362.1	3885.1	2054.8	2109.9	2169.3	2225.5	2265.4	2171.5	2148.8	2111.0	2109.9
40°	6314.6	3561.2	1957.7	2037.6	2058.1	2129.4	2026.8	2063.5	2074.3	2054.8	2054.8
42.5°	6265.0	3279.3	1873.4	1982.5	1979.3	1969.5	1917.7	1965.2	2008.4	2009.5	2006.3
45°	6215.3	3036.4	1798.9	1864.8	1910.2	1805.4	1815.1	1865.9	1926.4	1947.9	1947.9
47.5°	6160.2	2844.2	1730.9	1740.6	1810.8	1740.6	1733.1	1771.9	1843.2	1877.8	1885.3
50°	6039.3	2671.4	1653.2	1631.6	1651.0	1674.8	1681.2	1699.6	1778.4	1833.5	1846.4
52.5°	5871.9	2517.0	1553.8	1531.1	1531.1	1620.8	1651.0	1656.4	1723.3	1789.2	1802.2
55°	5732.6	2418.7	1451.2	1446.9	1442.6	1563.5	1615.4	1624.0	1670.4	1722.3	1728.7
57°	5742.3	2411.2	1372.4	1376.7	1375.7	1505.2	1581.9	1600.3	1624.0	1668.3	1675.8
57.5°	5747.7	2416.6	1355.1	1357.3	1356.2	1489.0	1572.2	1592.7	1611.1	1657.5	1665.0
60°	5828.7	2430.6	1285.0	1261.2	1266.6	1402.7	1517.1	1543.0	1554.9	1616.5	1626.2
62.5°	5708.9	2368.0	1228.8	1171.6	1171.6	1311.9	1440.4	1481.5	1499.8	1583.0	1599.2
65°	5361.2	2192.0	1162.9	1070.1	1080.9	1221.2	1348.7	1415.6	1443.7	1547.3	1564.6
67.5°	4824.5	1987.9	1092.8	979.4	990.2	1126.2	1253.6	1326.0	1370.3	1508.5	1522.5
70°	4125.9	1738.5	997.7	883.3	896.2	1022.6	1141.3	1223.4	1289.3	1471.8	1476.1
72.5°	3041.8	1425.3	864.9	777.5	791.5	901.6	1028.0	1123.0	1211.5	1380.0	1377.8
75°	1808.7	1114.3	718.1	670.6	680.3	782.8	925.4	1040.9	1173.7	1344.3	1364.9
77.5°	1097.1	839.0	585.2	561.5	573.4	678.1	852.0	975.1	1157.5	1267.7	1261.2
80°	663.0	599.3	467.6	452.4	464.3	579.8	788.2	925.4	1011.8	1083.0	1083.0
82.5°	346.6	366.0	343.4	331.5	347.7	470.8	717.0	807.7	894.1	767.7	717.0
85°	141.5	191.1	208.4	207.3	217.0	326.1	618.7	691.1	576.6	547.5	560.4
87.5°	47.5	81.0	101.5	87.5	91.8	205.2	428.7	333.7	396.3	276.4	262.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)